

### **REMARKS/ARGUMENTS**

In the Office Action dated May 30, 2006, Claims 1-51 are pending. Claims 1, 4-29, 31, 32, 34, 35, 38-41, and 44-49 are rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent Application Publication No. 2002/0191998 to Cremon, et al. Claim 30 is rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 6,593,952 to Funayama, et al. Claims 2, 3, 16, 17, 33, 36, 37, 42, 43, 50, and 51 are indicated to be allowable if rewritten in independent form.

Independent Claims 1 and 8 are amended above. All other previous independent claims are canceled. New Claims 52-77 are added. Applicant respectfully requests reconsideration of the claims in light of the above amendments and the following comments.

Claim 1 has been amended to incorporate the features of dependent Claim 2. Thus, Claim 1, as amended, is directed to a media supply apparatus that includes a spool, a transfer ribbon, and a wireless device disposed on the transfer ribbon. The transfer ribbon is wound on the spool so that a first end is disposed radially inward of a plurality of wound layers of the ribbon and the second end is disposed radially outward of the plurality of wound layers. Further, the wireless device is disposed on the transfer ribbon proximate to the first end and in contact with the spool such that said wireless device is disposed between the spool and the plurality of wound layers of said transfer ribbon. Neither of the cited references discloses such a media supply apparatus, in which the wireless device is disposed on a first end of the media such that the wireless device is both in contact with the spool and between the spool and the wound layers. Accordingly, Applicant submits that Claim 1 is allowable, as are the dependent Claims 4-7.

Independent Claim 8 has been amended to incorporate dependent Claim 9 and also features of Claims 10-13. As amended, Claim 8 is directed to an apparatus for supplying a transfer ribbon. The apparatus comprises a spool, a media of a transfer ribbon, at least partially wound on the spool, and a wireless device disposed on the media. Further, the spool defines at least one of the four following features: (1) an outer surface defining a recess for at least partially receiving the wireless device, (2) an outer surface defining an annular groove for at least partially receiving the wireless device, (3) an aperture extending from an outer surface of said spool with said wireless device being configured on said spool to communicate through the aperture, or (4)

a portion of the spool configured to be deformed such that said spool at least partially receives said wireless device.

These four features were previously recited in Claims 10-13. In this regard the Office Action referred to various portions of Cremon, et al. In particular, regarding Claim 10, which recites that the outer surface of the spool defines a recess for at least partially receiving the wireless device, the Office Action refers to Figures 3-6 of Cremon, et al. However, these figures do not disclose such a recess. Instead, Figure 3 of Cremon, et al. illustrates an RFID tag 7 at the exterior end 9 of the roll. The RFID tag 7 is not proximate or in contact with the roll core 11, and the roll core 11 does not define any recess for the RFID tag 7. Similarly, Figures 4 and 5 illustrate roll cores 11, but the illustrated roll cores 11 do not define any recess for the RFID tags 10, 12, 13. Figure 6 of Cremon, et al. is a block diagram illustrating the RF tag information signal paths and, as such, does not illustrate any outer spool surface that defines a recess for a wireless device. Thus, none of the cited figures of Cremon, et al. illustrates the feature of a recess for the wireless device, and Applicant respectfully submits that Cremon, et al. fails to disclose this feature. The Office Action refers to Figures 2-6 in connection with the other features of Claims 11-13, which are now incorporated alternatively in Claim 8; however, the roll cores 11 illustrated in Cremon, et al. (including those in Figures 2-6) do not include an annular groove for at least partially receiving the wireless device, an aperture extending from an outer surface of the spool with the wireless device being configured on the spool to communicate through the aperture, or a portion of the spool being deformable so that the spool at least partially receives the wireless device. Accordingly, Applicant submits that Claim 8 is patentable over Cremon, et al., as are each of the dependent Claims 10-26.

New Claim 52 includes all of the features of previous Claims 1 and 6. The recited media supply apparatus includes a spool, a transfer ribbon at least partially wound thereon, a wireless device disposed on the transfer ribbon, and "a housing defining an interior space, the spool being disposed in the interior space of the housing and said wireless device being configured to receive a wireless signal transmitted through said housing." Thus, as claimed, the spool is disposed in the interior space of the housing, and the wireless device that is disposed on the ribbon wound on the spool is configured to receive a wireless signal that is transmitted through the housing. For

example, as discussed in the present application, the read/write head **40** can communicate with the identification device **30** through the housing **24** of the cartridge **22**. *See* page 9, line 31 – page 10, line 10. Regarding the rejection of Claim 6, the Office Action refers to paragraphs 51-53, 55, and 59-60 and Figure 10 of Cremon, et al. The cited portions of Cremon, et al. disclose that the RFID tag can be positioned at the internal or external first row ends or the first roll core and, further, that a roll can be fitted into a printer; however, Cremon, et al. does not teach or suggest that the RFID tag can be disposed on a ribbon in a housing with the tag configured to receive a wireless signal transmitted through the housing. Accordingly, Applicant submits that Claim 52 is allowable, as are dependent Claims 53-55, which include features of previous Claims 4, 5, and 7.

New Claim 56 is directed to an apparatus for supplying a transfer ribbon. The apparatus includes “a printer cartridge having integral first and second spools rotatably mounted thereto.” A media of a transfer ribbon, with a wireless device disposed thereon, is at least partially wound on the first spool and configured to be transferred from the first spool to the second spool. Cremon, et al. does not disclose any such printer cartridge in which a wireless device is disposed on a ribbon wound on a spool that is integral to the cartridge. Accordingly, Applicant submits that Claim 56 is allowable, as are dependent Claims 57-72, which include features of previous Claims 10-17 and 19-26.

New Claim 73 includes all of the features of previous Claims 8 and 20. The recited apparatus includes a media of a transfer ribbon with a wireless device disposed thereon and “an overlay adhered to said media with said wireless device disposed between said overlay and said media, wherein said overlay is a label with indicia thereon.” With regard to the rejection of Claim 20, the Office Action refers to paragraphs 38, 51-53, 55, 64, 69, 78, and 79 and Figures 2-6 and 10 of Cremon, et al. None of the cited portions of Cremon, et al. discloses an overlay adhered to the media as claimed, with the overlay being a label with indicia and the wireless device disposed between the overlay and the media.

New Claim 74 includes all of the features of previous Claims 8 and 21. The recited apparatus includes a media of a transfer ribbon with a wireless device disposed thereon, “wherein said media includes multiple plies and said wireless device is located between two of

the plies of said media.” With regard to the rejection of Claim 21, the Office Action refers to Figures 2-6 and 10 of Cremon, et al. None of the cited figures Cremon, et al. discloses a media material that has more than one ply. Nor do the cited figures illustrate a wireless device located between two plies of a media.

New Claim 75 includes all of the features of previous Claims 8 and additionally requires at least one of the features of Claims 25 or 26. The recited apparatus includes a media of a transfer ribbon with two wireless devices disposed thereon. The first and second wireless devices are configured to perform at least one of the following operations: (1) the first and second wireless devices receiving radio frequency signals from transceivers at first and second different locations, respectively, or (2) the first and second wireless devices storing first and second different data, respectively. Cremon, et al. does not disclose an apparatus in which a first wireless device receives radio frequency signals from one transceiver and a second wireless device receives radio frequency signals from a different transceiver that is at a location different than the first transceiver. Nor does Cremon, et al. disclose an apparatus in which a first wireless device stores first data and a second wireless device stores second data that is different than the first data. Accordingly, Applicant submits that Claim 75 is also allowable, as are dependent Claims 76 and 77.

For the reasons set forth above, Applicant respectfully submits that all of the pending Claims 1, 4-8, 10-26, and 52-77 are allowable.

It is not believed that extensions of time or fees for net addition of claims are required, beyond those that may otherwise be provided for in documents accompanying this paper. However, in the event that additional extensions of time are necessary to allow consideration of this paper, such extensions are hereby petitioned under 37 CFR § 1.136(a), and any fee required

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therefore (including fees for net addition of claims) is hereby authorized to be charged to Deposit Account No. 16-0605.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Nick Gallo". The signature is fluid and cursive, with the first name "Nick" and last name "Gallo" clearly distinguishable.

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